

CLAIMS

1. A method for balancing work output from cylinder banks of an engine having a common crankshaft and separate intake camshafts with cam phasers for each bank; the method comprising:

5 sensing a crankshaft rotational characteristic during the power strokes of pistons of predetermined comparable cylinders of each bank and computing average crankshaft rotational characteristics for the power strokes of the comparable cylinders of each bank; and

10 adjusting the phasing of at least one of the intake camshafts to obtain equal averages of the sensed characteristics of the crankshaft during the power strokes of the respective banks.

2. A method as in claim 1 wherein the sensed rotational characteristic is crankshaft speed.

3. A method as in claim 1 wherein the sensed rotational characteristic is crankshaft acceleration.

4. A method as in claim 1 wherein the sensed characteristic is detected by using a crankshaft position sensor.

5. A method as in claim 1 wherein the predetermined comparable cylinders include all the cylinders of each cylinder bank.

6. A method as in claim 1 wherein the engine is operable with early intake valve closing.

7. A method as in claim 1 wherein the engine is operable with late intake valve closing.

8. A method as in claim 1 wherein the engine is a V-type engine.